

Abstract

Phosphor-based LED and associated phosphor

An LED with inorganic phosphor, an LED chip emitting primary radiation in the range of 300 to 470 nm, this radiation being converted partly or completely into longer-wave radiation by at least one phosphor which is exposed to the primary radiation of the LED, the conversion being achieved at least with the assistance of a phosphor of a mean particle size d_{50} that lies in the range of 1 to 50 nm, preferably 2 to 25 nm.

Figure 2